

Appl. No. 10/507,191
Amendment and/or Response
Reply to Office action of 8 May 2006

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-15 (Canceled)

16. (New) A display device comprising:

an array of pixels,

a column driver that is configured to drive columns of the array via a plurality of column outputs, and

a switch element that is configured to selectively route each column output of the plurality of column outputs to one of two corresponding columns of the array.

17. (New) The display device of claim 16, wherein

the columns of the array are indexed from 0 to m,

the column outputs are indexed from 0 to m, and

the switch element is configured to selectively route each (j) column output to one of (j) and (m-j) columns, where j ranges from 0 to m.

18. (New) The display device of claim 16, wherein

the array of pixels consists of an odd number of columns, and

the column driver provides a center output that bypasses the switch element and is coupled to a center column of the array of pixels.

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19. (New) The display device of claim 16, wherein
the switch element includes a pair of complementary transistors coupled to each column output,
a first transistor of each pair being coupled to a first column of the two corresponding columns of the array,
a second transistor of each pair being coupled to a second column of the two corresponding columns of the array, and
a common control signal controls each of the first and second transistors of each pair to route each column output to one of the first and second corresponding columns.
20. (New) The display device of claim 19, wherein
each pixel includes first and second sub-pixels.
21. (New) The display device of claim 20, wherein
the first and second sub-pixels of each pixel include reflecting layers on opposing sides of the pixel.
22. (New) The display device of claim 20, wherein
the first and second sub-pixels of each pixel include absorbing layers on opposing sides of the pixel.
23. (New) The display device of claim 20, wherein
the first sub-pixels are configured to be viewable from a first direction and the second sub-pixels are configured to be viewable from a second direction that is substantially opposite the first direction.

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24. (New) The display device of claim 23, wherein

the switch element is configured to selectively route each column output to one of: the first sub-pixel of a first of the two corresponding columns, and the second sub-pixel of a second of the two corresponding columns

25. (New) The display device of claim 16, wherein

the display device is viewable from a first direction and a second direction that is substantially opposite the first direction, and

the switch element is configured to be controlled based on whether the display device is being viewed from the first direction or the second direction.

26. (New) The display device of claim 16, wherein

the columns of the array of pixels are arranged as horizontal rows of the display device, and

rows of the array of pixels are arranged as vertical columns of the display device.

27. (New) A display device comprising:

an array of pixels, each pixel including a first sub-pixel that is configured to be viewable from a first direction and a second sub-pixel that is configured to be viewable from a second direction that is substantially opposite the first direction,

a column driver that is configured to drive columns of the array via a plurality of column outputs,

wherein

each column output is operably coupled to the first sub-pixel of pixels in a first column of the array of pixels and to the second sub-pixel of pixels in a second column of the array of pixels, thereby facilitating viewing of the display device from the first and second directions.

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28. (New) The display device of claim 27, wherein
the first and second sub-pixels of each pixel include reflecting layers on
opposing sides of the pixel.
29. (New) A method of driving a display device, including:
providing a plurality of data signals to a data register having a corresponding
plurality of outputs, each output being associated with a pair of columns of the
display device, and
selectively routing each output to one of the associated pair of columns.
30. (New) The method of claim 29, wherein
the columns of the display device are indexed from 0 to m,
the outputs are indexed from 0 to m, and
each pair of (j) and (m-j) columns are associated with each (j) output, where (j)
ranges from 0 to m.
31. (New) The method of claim 29, wherein
the display device consists of an odd number of columns, and
a center data signal is routed to a center column of the display device.
32. (New) The method of claim 29, including
providing a control signal that controls the selective routing of each output,
wherein:
the display device is viewable from opposite sides of the display device, and
the control signal is provided based on a direction of viewing the display
device.

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33. (New) The method of claim 29, wherein
each column includes first and second sub-pixels of each pixel in the column,
and

the first sub-pixels are configured to be viewable from a first direction and the
second sub-pixels are configured to be viewable from a second direction that is
substantially opposite the first direction.

34. (New) The method of claim 33, including
determining a direction of viewing,
selectively routing the plurality of outputs to the first sub-pixels if the direction
of viewing corresponds to the first direction, and
selectively routing the plurality of outputs to the first sub-pixels if the direction
of viewing corresponds to the second direction.

35. (New) The method of claim 33, including
selectively routing the plurality of outputs to both the first and second sub-
pixels to facilitate viewing from either the first or second directions.